Team 31 ERD and Conversion

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Final Conversion

tp_advisor (advisorID, nameF, nameM, nameL, expertise, room)
tp_building (buildingID, name, addrStreet, addrCity, addrState, addrZip)
tp_course (courseID, courseNumber, title, creditHours, instructor→ ,prereq→)
tp_department (departmentID, title)
tp_faculty (facultyID, nameF, nameM, nameL, rank, hireDate, office, phone, departmentID, phone, departmentID→)
tp_faculty_email (facultyID→ , email, type)
tp_major (majorID, title, creditHrs)
tp_room (roomID, type, capacity, feature, buildingID→)
tp_section (sectionID, sectionNumber, semesterID→ , courseID→ , instructor→ , room→)
tp_semester (semesterID, title, startDate, endDate)
tp_student (studentID, nameF, nameM, nameL, addrStr, addrCity, addrSt, addrZip, phone, advisor→ , majorID→)
tp_student_email (studentID→ , email, type)
tp_student_parent (parentID→ , nameF, nameM, nameL, phone)
tp_student_phone (studentID→ , phone, type)
tp_student_takes_class (studentID→ , sectionID→ , grade)

Final ERD

Advisor
- advisorID
- name(f,m,l)
- expertise

Room
- roomID
- type
- capacity
- feature

Building
- buildingID
- name (f,m,l)
- address()

Section
- sectionID
- section number
- grade

Semester
- semesterID
- title
- date(start,end)

Faculty
- facultyID
- name(f,m,l)
- rank
- hire date
- office
- phone*
- email*

Student
- studentID
- name(f,m,l)
- address()
- phone*
- email*
- parent(name(),phone*)

Course
- courseID
- courseNumber
- title
- credit hours
- prerequisite

Major
- majorID
- title
- creditHrs

Department
- departmentID
- title

Relationships:
- Advisor — Has — Room : N:N
- Room — In — Building : N:N
- Room — roomID (self) : N:N
- Building — name (self)
- Advisor — Advises — Student : N:N
- Advisor — Advises : N:N
- Room — Section : N:N
- Section — Taught by — Faculty
- Section — During — Semester : N:N / N:N
- Faculty — Chairperson : 1:1 / 1:N
- Section — Takes : N:N
- Student — Takes — Course : N:N
- Course — Prereq : 1:1 / 1:N
- Student — Picks — Major : N:N
- Faculty — Part of — Department : N:N
- Major — Part of — Department : N:N